TABLE 21

Federal obligations for research in engineering, by agency and detailed field: FY 2019
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Other engineering
All agencies	15,279,311.2	1,199,165.0	829,661.1	454,093.1	566,290.3	970,609.7	630,142.5	1,842,831.3	8,786,518.2
Departments									
Department of Agriculture	74,549.7	0.0	0.0	315.8	0.0	0.0	0.0	0.0	74,233.9
Agricultural Research Service	10,468.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10,468.2
Forest Service	10,262.6	0.0	0.0	315.8	0.0	0.0	0.0	0.0	9,946.8
National Institute of Food and Agriculture	53,818.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53,818.8
Department of Commerce	260,355.2	0.0	0.0	417.3	58,039.5	98,100.4	2,610.0	58,811.0	42,377.0
National Institute of Standards and Technology	243,901.2	0.0	0.0	417.3	52,603.5	87,082.4	2,610.0	58,811.0	42,377.0
National Oceanic and Atmospheric Administration	8,554.0	0.0	0.0	0.0	5,436.0	3,118.0	0.0	0.0	0.0
National Telecommunications and Information Administration	7,900.0	0.0	0.0	0.0	0.0	7,900.0	0.0	0.0	0.0
Department of Defense	3,150,060.6	648,222.9	95,690.0	105,518.8	29,305.4	589,000.5	389,094.8	459,385.6	833,842.6
Defense Advanced Research Projects Agency	362,288.7	40,162.3	0.0	16,042.0	0.0	98,883.5	8,830.1	16,339.4	182,031.4
Department of the Air Force	1,195,657.5	445,001.7	71,802.8	10,376.9	12,063.3	223,442.7	70,060.7	234,623.9	128,285.6
Department of the Army	705,793.3	88,832.7	19,035.6	61,902.7	10,553.7	51,846.9	247,260.2	68,817.1	157,544.4
Department of the Navy	647,084.2	64,103.7	0.0	700.0	0.0	117,128.7	24,173.3	118,128.7	322,849.7
Other defense agencies	239,236.8	10,122.4	4,851.5	16,497.3	6,688.4	97,698.6	38,770.4	21,476.5	43,131.6
Department of Energy	5,679,410.6	0.0	50.0	255,701.1	100,000.0	125,347.3	70,792.6	1,107,067.3	4,020,452.4
Advanced Research Projects Agency—Energy	125,171.4	0.0	0.0	28,789.8	0.0	18,433.2	57,806.9	14,683.2	5,458.3
Electricity Delivery and Energy Reliability	86,994.0	0.0	0.0	0.0	0.0	86,994.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	1,270,334.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,270,334.0
Fossil Energy	300,000.0	0.0	0.0	200,000.0	100,000.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	2,483,609.7	0.0	50.0	245.0	0.0	210.0	0.0	169,183.8	2,313,921.0
Defense Programs	2,482,704.7	0.0	0.0	0.0	0.0	0.0	0.0	169,183.8	2,313,521.0
Office of Defense Nuclear Nonproliferation	905.0	0.0	50.0	245.0	0.0	210.0	0.0	0.0	400.0
Nuclear Energy	378,272.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	378,272.7

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Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Other engineering
Office of Cybersecurity, Energy Security, and Emergency Response	40,022.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40,022.2
Office of Science	995,006.6	0.0	0.0	26,666.3	0.0	19,710.1	12,985.7	923,200.4	12,444.2
Department of Health and Human Services	2,141,185.0	0.0	0.0	0.0	0.0	0.0	200.0	16,564.0	2,124,421.1
Agency for Healthcare Research and Quality	803.0	0.0	0.0	0.0	0.0	0.0	200.0	0.0	603.0
National Institutes of Health	2,140,382.0	0.0	0.0	0.0	0.0	0.0	0.0	16,564.0	2,123,818.1
Department of Homeland Security	112,876.4	4,684.4	0.0	2,680.4	2,971.0	19,426.9	61,952.1	0.0	21,161.6
Cybersecurity and Infrastructure Security Agency	1,450.0	0.0	0.0	0.0	0.0	0.0	880.0	0.0	570.0
Science and Technology Directorate	107,001.2	4,684.4	0.0	2,680.4	2,971.0	16,359.0	59,714.8	0.0	20,591.6
U.S. Coast Guard	4,425.2	0.0	0.0	0.0	0.0	3,067.9	1,357.3	0.0	0.0
Department of Housing and Urban Development	1,903.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,903.5
Department of the Interior	11,678.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11,678.9
Bureau of Reclamation	8,257.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8,257.0
Bureau of Safety and Environmental Enforcement	3,421.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,421.9
Department of Justice	1,734.1	0.0	0.0	0.0	137.9	0.0	159.1	0.0	1,437.1
Office of Justice Programs	1,734.1	0.0	0.0	0.0	137.9	0.0	159.1	0.0	1,437.1
Department of Transportation	588,054.1	0.0	873.1	6,534.2	368,399.0	4,351.7	30,574.2	500.0	176,821.9
Federal Aviation Administration	107,862.7	0.0	873.1	6,226.2	100,763.3	0.0	0.0	0.0	0.0
Federal Highway Administration	414,879.6	0.0	0.0	0.0	253,583.8	0.0	0.0	0.0	161,295.8
Federal Railroad Administration	30,339.3	0.0	0.0	0.0	14,051.9	4,151.7	8,942.1	0.0	3,193.6
National Highway Traffic Safety Administration	21,132.1	0.0	0.0	0.0	0.0	0.0	21,132.1	0.0	0.0
Office of the Secretary of Transportation	8,210.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8,210.9
Pipeline and Hazardous Materials Safety Administration	5,629.6	0.0	0.0	308.0	0.0	200.0	500.0	500.0	4,121.6
Department of the Treasury	177.7	0.0	0.0	0.0	0.0	0.0	0.0	177.7	0.0
U.S. Mint	177.7	0.0	0.0	0.0	0.0	0.0	0.0	177.7	0.0
Department of Veterans Affairs	63,927.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63,927.1

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Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Other engineering
Other agencies									
Environmental Protection Agency	57,407.5	0.0	0.0	20,873.3	2,409.6	0.0	685.5	519.3	32,919.8
Federal Communications Commission	1,500.0	0.0	0.0	0.0	0.0	1,500.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,916,816.7	546,257.7	733,048.0	0.0	0.0	4,480.5	0.0	16,318.6	616,711.9
National Science Foundation	1,111,319.2	0.0	0.0	62,052.3	5,027.9	113,363.9	62,448.6	183,487.7	684,938.8
Nuclear Regulatory Commission	74,076.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74,076.6
Tennessee Valley Authority	5,614.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,614.0
U.S. Postal Service	26,664.2	0.0	0.0	0.0	0.0	15,038.6	11,625.6	0.0	0.0

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See technical table A-2 for additional notes associated with the agencies listed in this table.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2019-20.